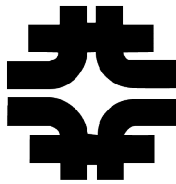


Run II DAQ Support And Developmmment (Software) Project Status Update for 9/05/2006

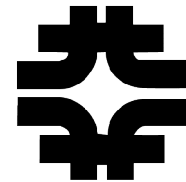
Gerald Guglielmo
(CD/CEPA/OAA)



Project Deliverables Status for CDF

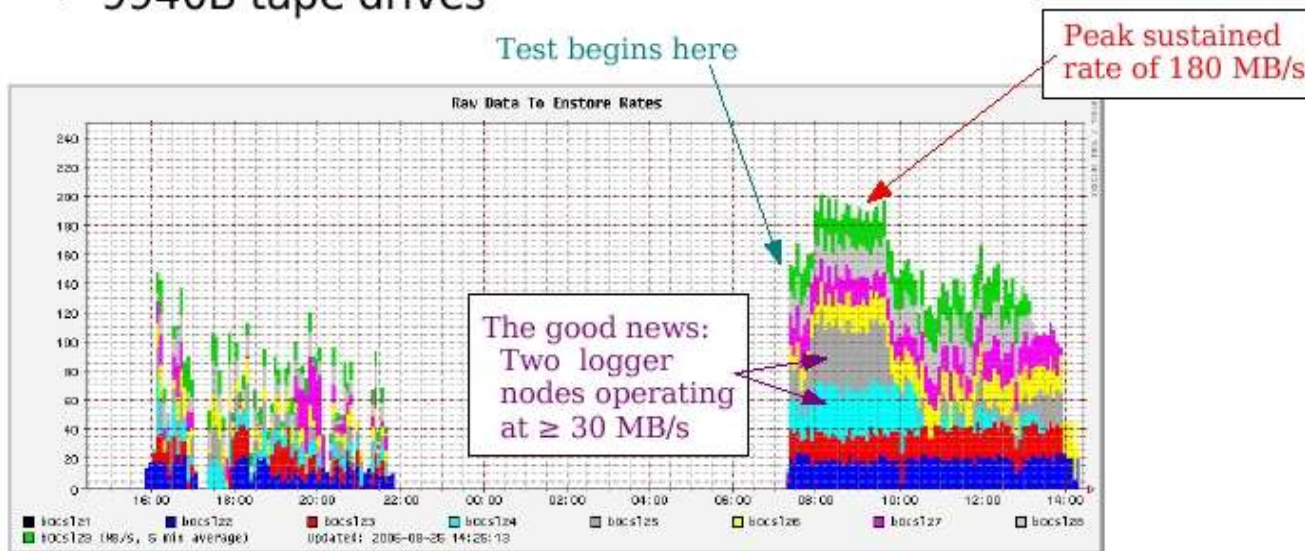
- CDF
 - SEVB and Merlin front line support transitioned to experiment
 - Consultation basis and guidance being given (~February 2006)
 - CDFRDL
 - Still in development and testing phase not support (*REXX provides front line support?*)
 - RDL running on Upgrade Production Hardware (completed 06/30/06)
 - Full BW with RDL & CSL 07/10/06 (completed 08/25/06)
 - 80 MB/s aggregate for 8 nodes to Mass Storage (nominal) 08/25/06
 - 30 MB/s single node to Mass Storage (nominal) 08/25/06
 - 1.5 times above rates for recovery of backlogs
 - CSL Upgrade readiness review 08/28/2006
 - Integration testing mid-September (roughly on schedule)
 - Migration to Production Fall06 (October – November)

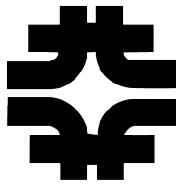
Project Deliverables Status for CDF (Cont.)



- CDFRDL full bandwidth tests on 08/28/2006 (plot from R. Snider talk)
 - Peak sustained rate requirement achieved
 - Single node rate requirement achieved (2 tape drives)

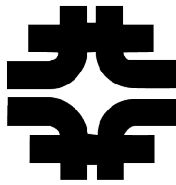
- 9940B tape drives





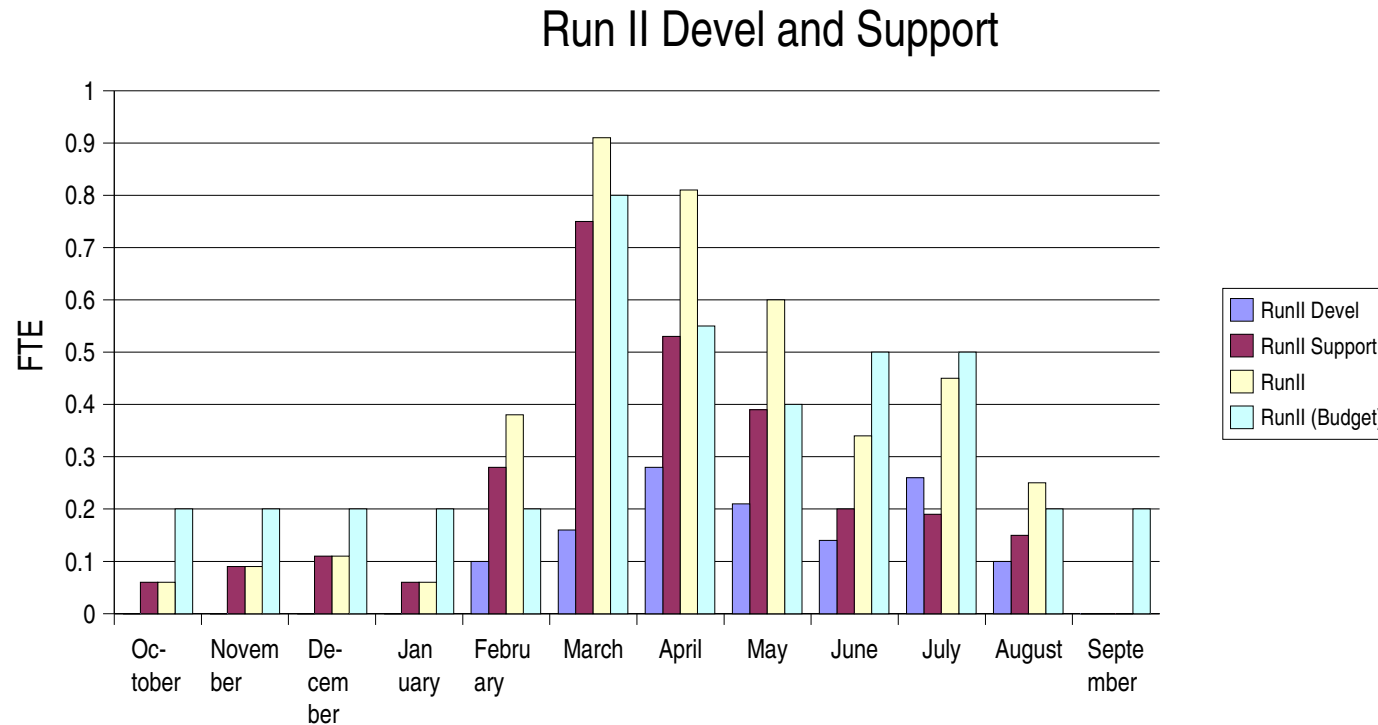
Project Deliverables Status for D0

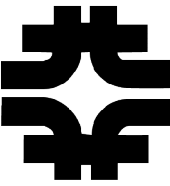
- D0
 - Provide backup monitoring and issue intervention when necessary (REXX provides primary)
 - Collector/Datalogger/ITC/Dlsam/Dlcat/DSM/Distributor
 - Dlsam/Dlcat updates in CVS based on bugs from CDFRDL work
 - Consultation on service name based fail over pending
 - *No longer a priority. D0 may move away from cluster model for due to cluster service failover issues.*
 - Unofficially advise on L3 resource leveling impact and constraints (e.g. *luminosity block related requirements*)
 - If approved this will yield potentially significant request for effort



Effort Profile RunII Support (Software)

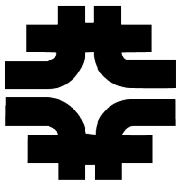
- 2 employees in CEPA/OAA, additional effort 1 employee in REXX/DHG





Risks From CDF

- CDF
 - CDFRDL
 - Has all the risks of supporting a new product in production
 - Long backlog load on system under some conditions (investigating phase space)
 - Violation of claimed uniqueness may require changes
 - Small file sizes compared to design at high data would rates impose significant additional load
 - Throttling may need to be enhanced
 - Proliferation to other experiments or aspects of experiment may require refactoring and moving away from forked code model.



Risks from D0

- D0
 - Most of the technical experts have been lost to attrition over several years
 - Remaining experts reside in different departments
 - coordination, authority, responsibility
- New hardware or library dependencies could require significant effort
- New features or upgrades means potential new instabilities
 - Older versions have been running for years
- Higher luminosity may provoke new issues
 - Resource leveling in L3 potentially large impact (need to keep eyes open and ear to the rails)
- Problems now rare (great!)
 - potential for loss of expertise (not so great)